

OM OF: US-09-069-228-2 TO: GenEmbl: * OUT_FORMAT : Pfs
 Date: Aug 26, 1999 2:37 PM

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Command line parameters:
 -MODEL=frame+P2n_model -DEV=VxLP
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 -DB=GenEmbl -QFMT=Fastap -SUFFIX=rge -GAPOP=12.000 -GAPEXT=4.000
 -MINMATCH=0.100 -LOOPCL=0.000 -LOOPXT=0.000 -QGAPOP=4.500
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 -LIST=100 -DOALIGN=200 -THR_SCORE=escore -TRANS=human40.cod
 -OUTFORMAT=pfs -NORM=stat -USER=US09069228 -NCPU=6 -ICPU=3 -WAIT
 -THREADS=1

Search information block:
 Query: US-09-069-228-2
 Query length: 493
 Database: GenEmbl: *
 Database sequences: 679419
 Database length: 1590154680
 Search time (sec): 331.010000

score_list:	Strd	Orig	Zscore	Escore	Len	Documentation
Sequence						Sequence 1 from patent
gb_pat:HR021339	+ 2449.00	4087.52	9.8e-220	1482	1	AK021339 Sequence 1 from patent
gb_pat:I38638	+ 2449.00	4087.52	9.8e-220	1482	1	18638 Sequence 1 from patent
gb_ro:RNU69702	+ 2449.00	4084.85	1.e-219	1895	1	U69702 Rattus norvegicus active
gb_ro:RN135025	+ 2430.00	4055.70	6.3e-218	1562	1	U51025 Rattus norvegicus active
gb_pat:I23851	+ 1720.50	2865.00	1.2e-151	1506	1	123851 Sequence 4 from patent
gb_pat:I25010	+ 1720.50	2865.00	1.2e-151	1506	1	I25010 Sequence 4 from patent
gb_ro:RANSETHKIR	+ 1720.50	2864.72	1.3e-151	1545	1	L26110 Rat transforming growth
gb_ro:MU59GBFIR	+ 1716.50	2857.24	3.3e-151	1659	1	D28526 Mouse mRNA for TGF-beta
gb_pat:A38813	+ 1716.50	2853.66	5.2e-151	2308	1	A38813 Sequence 9 from patent
gb_pr1:HD9MKA5	+ 1716.50	2853.66	5.2e-151	2308	1	L11695 Human activin receptor-
gb_ro:MU59GBFIR	+ 1716.50	2851.33	7.0e-151	2860	1	D28540 Mouse mRNA for TGF-beta
gb_on:BTU07485	+ 1702.50	2831.40	9.0e-150	2060	1	U94825 Bos taurus transforming
gb_on:CHXKEF2	+ 1682.00	2796.36	8.1e-148	2186	1	D14460 Chicken RPK-2 mRNA for
gb_pr1:HSU14722	+ 1674.00	2786.89	2.7e-147	1518	1	U14722 Human activin type I receptor
gb_pr2:HSALK4A	+ 1674.00	2782.23	4.9e-147	2333	1	U22336 Homo sapiens ALK-4 mRNA
gb_on:XLU01860	+ 1670.50	2778.66	8.5e-147	2001	1	U21860 Xenopus laevis type I s
gb_on:ST6666	+ 1670.00	2775.79	1.1e-146	2275	1	S76466 type I serine-threonine
gb_pat:A38811	+ 1670.00	2775.52	1.2e-146	2333	1	A38811 Sequence 7 from patent
gb_on:MAACT1B	+ 1664.00	2766.29	3.8e-145	2160	1	U31663 M.musculus (NIH Swiss)
gb_on:XLUD6643	+ 1663.00	2761.05	7.5e-146	2999	1	D60643 Xenopus laevis activin
gb_on:BRAXISGEN	+ 1658.00	2760.50	8.5e-146	1518	1	X94119 B.ratio mRNA for type I
gb_on:MSU37065	+ 1654.00	2754.36	1.8e-145	1381	1	U37065 Musstela sp. TGF-B type
gb_pat:I23849	+ 1650.00	2746.71	4.7e-145	1506	1	U23849 Sequence 2 from patient
gb_pat:I25008	+ 1650.00	2745.67	7.4e-145	1506	1	I25008 Sequence 2 from patient
gb_pr1:HUMSR22A	+ 1476.00	2452.94	1.1e-128	1780	1	L10125 Human serine/threonine
gb_on:AF056116	+ 1452.50	2365.50	8.1e-124	148860	1	UAF05116 Fugu rubripes serine
gb_pr1:HUOSMK23A	+ 1276.00	2118.09	4.9e-110	1665	1	L10126 Human serine/threonine
gb_in1:DMU06492	+ 1279.50	2115.53	6.8e-110	3620	1	U04692 Drosophila melanogaster
gb_on:AB020758	+ 1219.00	2022.93	9.7e-109	1593	1	AB020758 Danio rerio mRNA for
gb_pr3:HSU089326	+ 1218.50	2018.33	1.8e-104	2252	1	D13432 Chicken mRNA for receptor
gb_on:CHKRPK1	+ 1217.50	2018.11	1.8e-104	1969	1	L49204 Gallus gallus (clones Q
gb_on:CHKBKR1	+ 1207.00	2002.92	1.3e-103	1575	1	D88675 Homo sapiens mRNA for
gb_pr1:DB9675	+ 1207.00	2000.63	1.7e-103	1944	1	Z23143 M.musculus ALK-6 mRNA,
gb_pr1:HMALK6A	+ 1207.00	2000.59	1.7e-103	1952	1	A38821 Sequence 17 from patent
gb_pr1:A38821	+ 1207.00	2000.55	1.8e-103	2032	1	U83326 Xenopus laevis bone morpho
gb_pr3:HSU089326	+ 1204.50	1994.18	3.9e-103	2395	1	D32066 Xenopus laevis mRNA for
gb_on:DS3066	+ 1200.50	1991.19	5.7e-103	2315	1	U16654 Xenopus laevis BMP receptor
gb_on:XLUD6654	+ 1199.50	1986.68	1.0e-102	2206	1	D32067 Xenopus laevis mRNA for
gb_on:D32067	+ 1197.00	1989.98	1.1e-102	1599	1	Z23143 M.musculus ALK-3 mRNA,
gb_pr1:MMALK3A	+ 1200.00	1984.43	1.4e-102	2932	1	A38809 Sequence 5 from patent
gb_pr1:AS8809	+ 1200.00	1984.43	1.4e-102	2932	1	Z222535 H.sapiens ALK-3 mRNA,

em-pat:EG0533	+ 1197.00 1983.25	1.6e-102	2055	1 E0533 cDNA encoding human
gb-pat:A38817	+ 1197.00 1983.17	1.6e-102	2070	1 A38817 Sequence 13 from human
gb-ro:MUSBMRC	+ 1197.00 1982.07	1.8e-102	2092	1 D16750 Mouse mRNA for BMP r
gb-ro:MMU04672	+ 1197.00 1981.56	2.e-102	2402	1 U04672 Mus musculus type I
gb-ro:RATB471	+ 1194.00 1980.94	2.1e-102	1599	1 D17667 Rat mRNA for bone morphogenic protein 4
gb-dri:HUMSKRN	+ 1192.00 1974.71	4.7e-102	2085	1 U02911 Human novel serine kinase homologous to rat RSKR
gb-ro:RATRALK3	+ 1194.00 1974.10	5.1e-102	3003	1 D38082 Rat mRNA for bone morphogenic protein 3
gb-ro:ST5359	+ 1194.00 1973.53	5.5e-102	3167	1 S75359 Bone morphogenetic protein 5
gb-om:BTW58095	+ 1189.00 1971.89	6.9e-102	1699	1 U58095 Bone taurinus activin receptor beta
gb-pr2:HARL2A	+ 1192.00 1971.84	6.e-102	2715	1 222534 H. Sepiens ALK-2 mRNA
gb-pat:AB8807	+ 1192.00 1971.81	6.8e-102	2724	1 A38807 Sequence 3 from Pat
gb-ov:AB011826	+ 1181.50 1955.14	5.8e-101	2494	1 AB011826 Danio rerio BMPR-1
gb-ro:RATACTIREC	+ 1176.00 1949.58	1.2e-100	1780	1 U119341 Rattus norvegicus activin receptor beta
gb-ov:XLTU9914	+ 1175.00 1940.54	1.2e-100	1530	1 U23848 Sequence 1 from Pat
gb-pat:AB001073	+ 1175.00 1940.54	1.2e-100	1530	1 U25007 Sequence 1 from Pat
gb-ov:AP039425	+ 1176.50 1947.10	1.e-100	2415	1 U15436 Mus musculus transfectant
gb-ro:MSUSK7L	+ 1176.50 1941.30	3.4e-100	2056	1 U04673 Mus musculus NIH3T3
gb-pr:MMU04673	+ 1177.00 1941.30	9.0e-100	1758	1 U88622 Gallus gallus type I
gb-ov:GGUS8622	+ 1166.50 1933.77	3.5e-99	3405	1 U79914 Xenopus laevis activin receptor beta
gb-ov:XLTU9914	+ 1164.50 1923.24	3.5e-99	2591	1 A3801073 Xenopus laevis mRNA for activin receptor beta
gb-ro:RATSTK	+ 1160.50 1919.50	5.6e-99	3474	1 AF038425 Xenopus laevis ALK-1
gb-ov:AP039425	+ 1150.50 1899.53	7.3e-98	3079	1 AF012245 Xenopus laevis ALK-1
gb-pr:AF012245	+ 1150.50 1883.23	5.9e-97	1962	1 U88015 Mus musculus
gb-ro:MSUSA1KB	+ 1134.50 1878.89	1.0e-96	1909	1 U23166 Mus musculus (NIH Swiss)
gb-ro:MMALK1G	+ 1126.50 1865.76	5.5e-96	1922	1 U38815 Sequence 11 from Pat
gb-pat:A38815	+ 1116.50 1865.69	5.6e-96	3917	1 U38088 Rattus norvegicus (C
gb-pr:RATSTK	+ 1112.50 1851.25	3.6e-95	3917	1 U23850 Sequence 3 from Pat
gb-ov:AP039425	+ 1114.00 1847.27	5.9e-95	1518	1 AF012245 Xenopus laevis ALK-1
gb-pat:123890	+ 1114.00 1847.27	5.9e-95	1518	1 AF012245 Xenopus laevis ALK-1
gb-pr:AF012509	+ 1091.50 1806.69	1.1e-92	1970	1 U22533 H. Sepiens ALK-1 mRNA
gb-pr:RHSALKIA	+ 1091.50 1806.65	1.1e-92	204617	1 AF006074 Drosophila melanogaster mRNA for ALK-1
gb-in1:AC0006074	+ 1091.50 1806.65	1.1e-92	1984	1 A38005 Sequence 1 from Pat
gb-pat:AB008805	+ 1090.50 1806.41	1.1e-92	1733	1 U1075 Human TGF- b superfamily
gb-pr1:HUMTGPERS	+ 1090.50 1800.42	2.4e-92	3009	1 U33784 Drosophila melanogaster mRNA for ALK-1
gb-in1:DRBK2A	+ 1090.50 1798.23	3.6e-92	3682	1 U02112 Drosophila melanogaster mRNA for ALK-1
gb-in1:DMU1142	+ 1082.50 1787.74	1.2e-91	2811	1 U33785 Drosophila melanogaster mRNA for ALK-1
gb-pr1:DRBK2B	+ 1082.50 1787.74	1.2e-91	1896	1 U33475 Drosophila melanogaster mRNA for ALK-1
gb-in1:DROTP	+ 1080.50 1787.15	1.3e-91	2178	1 U30646 Frillytina mRNA for Drosophila melanogaster
gb-in1:DRDFTP	+ 1076.50 1777.69	4.4e-91	2805	1 D30646 Frillytina mRNA for Drosophila melanogaster
gb-in1:DRDTFP	+ 1076.50 1763.40	2.8e-90	2410	1 U1141 Drosophila melanogaster mRNA for ALK-1
gb-in1:DRBK1A	+ 1066.00 1761.71	3.5e-90	2413	1 U33790 Drosophila melanogaster mRNA for ALK-1
gb-in1:DRBK2A	+ 1063.00 1756.91	6.4e-90	2361	1 U02112 Drosophila melanogaster mRNA for ALK-1
gb-in1:DMU1142	+ 1061.00 1753.26	1.0e-89	2425	1 U05209 Drosophila melanogaster mRNA for ALK-1
gb-pr1:DRBK2B	+ 1061.00 1753.26	1.0e-89	2425	1 U05209 Drosophila melanogaster mRNA for ALK-1
gb-in1:DRBK2B	+ 980.50 1620.86	2.4e-82	1896	1 AF031557 Schistosoma mansoni mRNA for ALK-1
gb-in1:DROTP	+ 980.50 1620.86	2.4e-82	1896	1 U3318 Rattus norvegicus hab
gb-in1:DRBK2B	+ 978.00 1344.71	9.8e-82	1903	1 U33300 Activin receptor [X]
gb-ro:RND63318	+ 975.00 1222.56	7.9e-82	750	1 U60420 Papilio hamadryas activin receptor
gb-pr1:DRBK2B	+ 975.00 1222.56	7.9e-82	750	1 U60420 Papilio hamadryas activin receptor
gb-pr1:DRBK2B	+ 704.00 1154.19	2.4e-56	2441	1 AF013991 Brugia pahangi TGF-
gb-in1:DRBK2A	+ 686.50 1119.56	2.0e-54	3964	1 AF069500 Danio rerio activin receptor
gb-ov:AF069500	+ 679.00 1111.49	5.7e-54	2615	1 AF001406 Carassius auratus mRNA for ALK-1
gb-ov:AF001406	+ 666.50 1093.97	5.4e-53	1903	1 U31223 Gallus gallus activin receptor
gb-ov:GU51223	+ 660.50 1081.77	5.2e-52	2315	1 S70300 Activin receptor [X]
gb-ov:S70930	+ 657.50 1079.77	3.5e-52	1833	1 U57707 Bos taurus activin receptor
gb-pr1:DRBK2B	+ 655.00 1071.53	9.6e-52	2542	1 M88544 Xenopus laevis activin receptor
gb-ov:XELACR	+ 651.50 1070.77	1.1e-51	1587	1 X77533 H. Sepiens mRNA for ALK-1
gb-pr1:HSACTIRE	+ 650.50 1068.29	1.5e-51	1708	1 M86120 Mouse activin receptor
gb-pr1:DRBK2B	+ 648.00 1061.99	3.3e-51	2075	1 S52837 Activin receptor [X]
gb-in1:AF104017	+ 648.00 1061.62	3.4e-51	2146	1 AF04037 Caenorhabditis elegans mRNA for ALK-1
gb-ov:CHAKTIA	+ 644.50 1059.34	4.6e-51	1542	1 D31899 Chicken mRNA for activin receptor
gb-pr1:HSACTIREC	+ 643.50 1057.44	5.8e-51	1573	1 X61128 H. Sepiens mRNA for ALK-1
gb-om:BOVACIRI	+ 642.50 1055.31	7.7e-51	1640	1 L21717 Bos taurus (clones) mRNA for ALK-1

